9'

SWSC 1049-A

SCHLUMBERGER

SONIC LOG - GAMMA RAY

(WITH CALIPER)

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY LINN
FIELD or LOCATION 27 - 13S - 4W
SOUTH ALBANY
WELL T.J. PORTER
NO.1
COMPANY GULF OIL CORP.

COMPANY GULF OIL CORPORATION
OF CALIFORNIA

WELL T.J. PORTER NO.1

FIELD SOUTH ALBANY

COUNTY LINN **STATE** OREGON

LOCATION 660 FT. NORTH AND 660 FT. EAST FROM CENTER

Other Services: SL-GR (1-ES, SL ML, CDD) 2 & 5 INCH

Sec. 27 Twp. 13S Rge. 4W

Permanent Datum: G.L., Elev. 266.4
Log Measured From K.B., 16.5 Ft. Above Perm. Datum
Drilling Measured From

Elev.: K.B. 282.9
D.F.
G.L. 266.4

Date	11-30-63	1-5-64		
Run No.	ONE	TWO		
Depth—Driller	4949	8113		
Depth—Logger	4953	8113		
Btm. Log Interval	4950	8108		
Top Log Interval	526	4950		
Casing—Driller	13 3/4 @ 526	9 5/8 @ 4867	@	@
Casing—Logger	526	4871		
Bit Size	12 1/4	REMARKS		
Type Fluid in Hole	CLAY	GYP Q-BROXIN		
Dens. | Visc.	106 | 60	112 | 55		
pH | Fluid Loss	10 | 15 ml	10.0 | 4.9 ml	ml	ml
Source of Sample	FLOW LINE	FLOW LINE		
R_m @ Meas. Temp.	2.05 @ 40 °F	1.1 @ 70 °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	.70 @ 118 °F	.35 @ 144°F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.3 @ 118 °F	.95 @ 144°F	@ °F	@ °F
Source: R_{mf} | R_{mc}	C | C	C | C		
R_m @ BHT	.95 @ 118 °F	0.53 @ 144°F	@ °F	@ °F
Time Since Circ.	8 HOURS	11 HOURS		
Max. Rec. Temp.	118 °F	144 °F	°F	°F
Equip. | Location	3708 | SAC	3707 | SAC		
Recorded By	CATES	MARCHETTE		
Witnessed By	DAY	DAY		

FOLD HERE

REMARKS RUN TWO: SONIC - CALIPER WITH INTEGRATED CURVE

Changes in Mud Type or Additional Samples

Date | Sample No.				
Depth—Driller				
Type Fluid in Hole				
Dens. | Visc.				
ph | Fluid Loss		ml		
Source of Sample				
R_m @ Meas. Temp.	@	°F	@	°F
R_{mf} @ Meas. Temp.	@	°F	@	°F
R_{mc} @ Meas. Temp.	@	°F	@	°F
Source: R_{mf} | R_{mc}				
R_m @ BHT	@	°F	@	°F
R_{mf} @ BHT	@	°F	@	°F
R_{mc} @ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

Run No.	Tool Type	Pad Type	Tool Pos.	Other
1	VL-S		CENTERED	
2	VL-C		CENTERED	

C.D.: USED S.O.: STANDARD SONIC CENTRALIZER RUN TWO: 8 1/2 4949 - 8113
12 1/4 4867 - 4949

Equip. Used: CART. No.	B-42	C-272
PANEL No.	B-138	B-78
SONDE No.	G-396	B-33

RUN TWO: INTEGRATED CURVE IN MILLISECONDS

CALIBRATION:	BACKGND. CPS.	SOURCE CPS.	GALV. INCR. DIVISIONS	SENS. TAP (FOR CAL.)	SENS. TAP (RECORD)	TIME CONST.	RECORDING SPEED (FT./MIN.)
GAMMA RAY:	35	365	8.25	500	150	2	60

RUN ONE: GNT-F-75 SCINT DET'R SGD-F-306

$$\text{Velocity (feet per second)} = \frac{1{,}000{,}000}{\text{Interval Transit Time (microseconds per foot)}}$$

GAMMA RAY
API UNITS

0 60

DEPTHS

INTERVAL TRANSIT TIME
MICROSECONDS PER FOOT

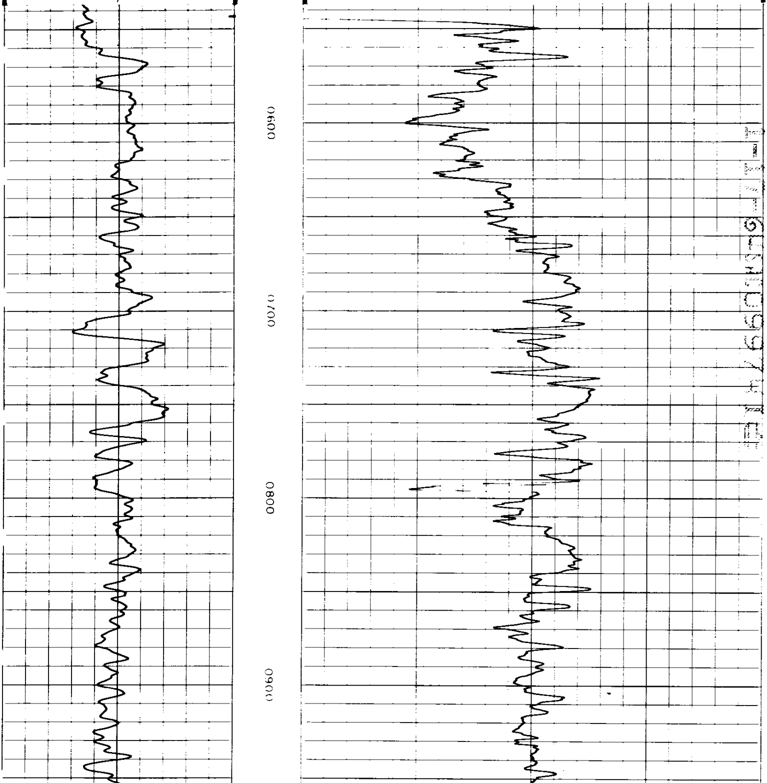
T 3 R₁ 3 R₂

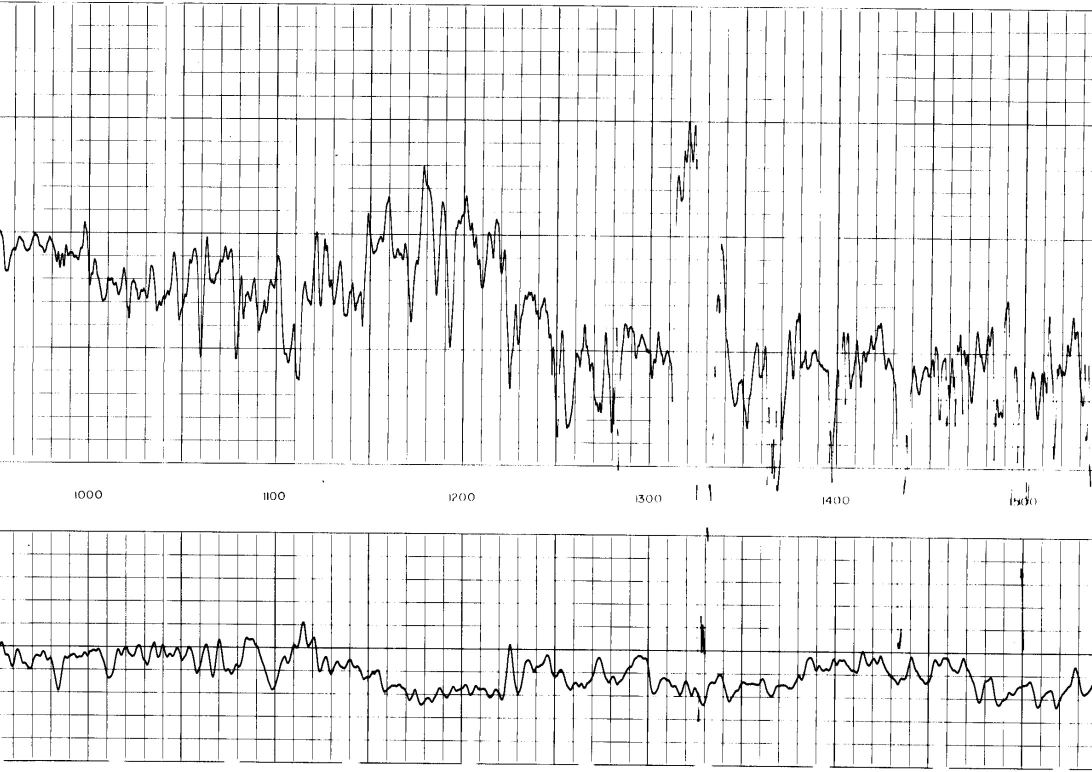
150 100 50

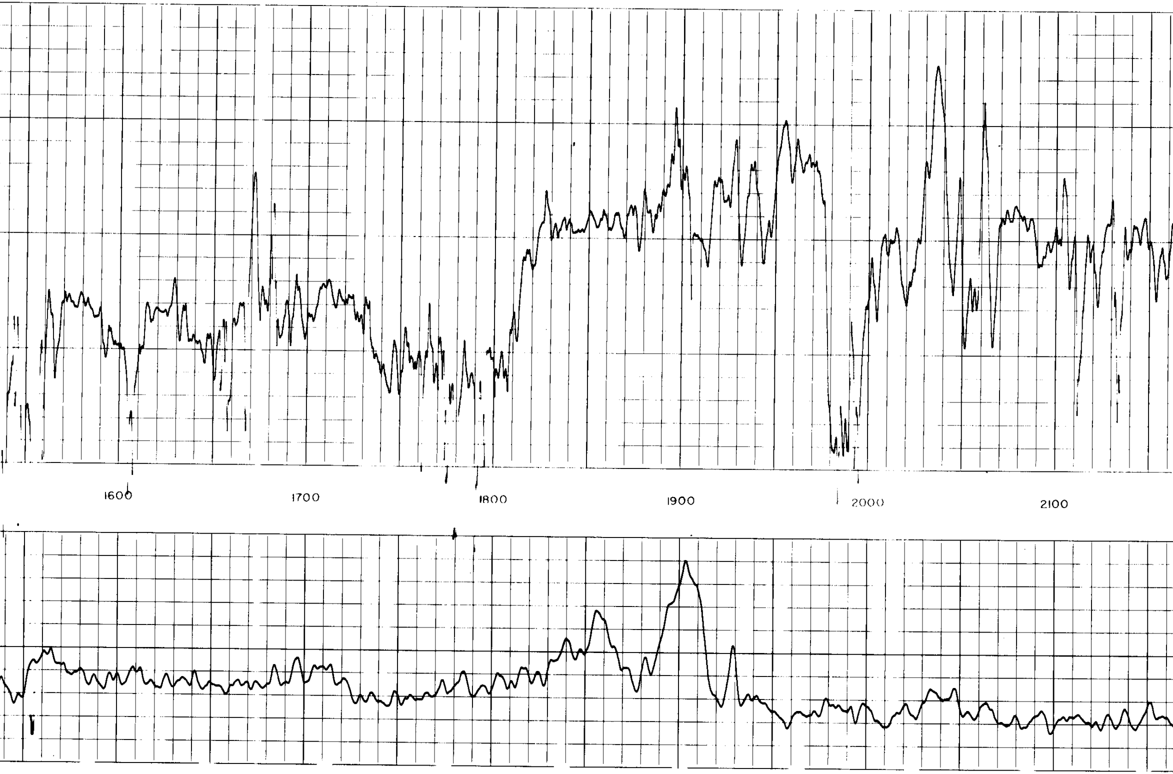
CALIPER
HOLE DIAM. IN INCHES

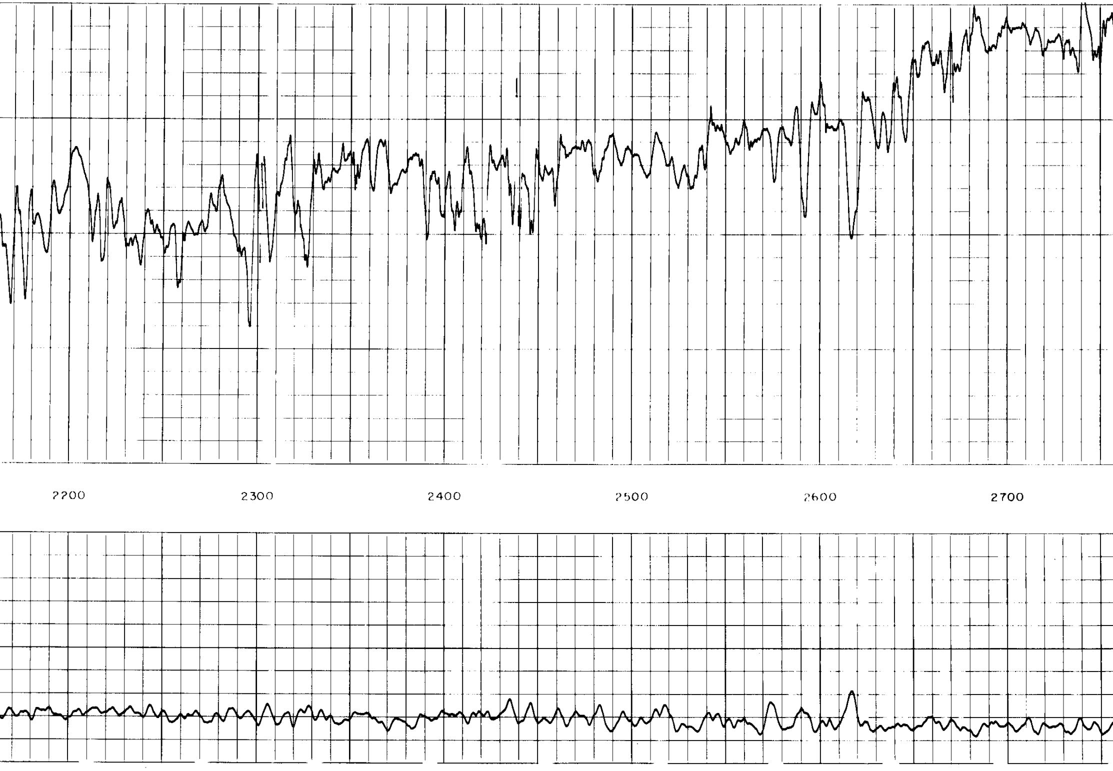
6 16

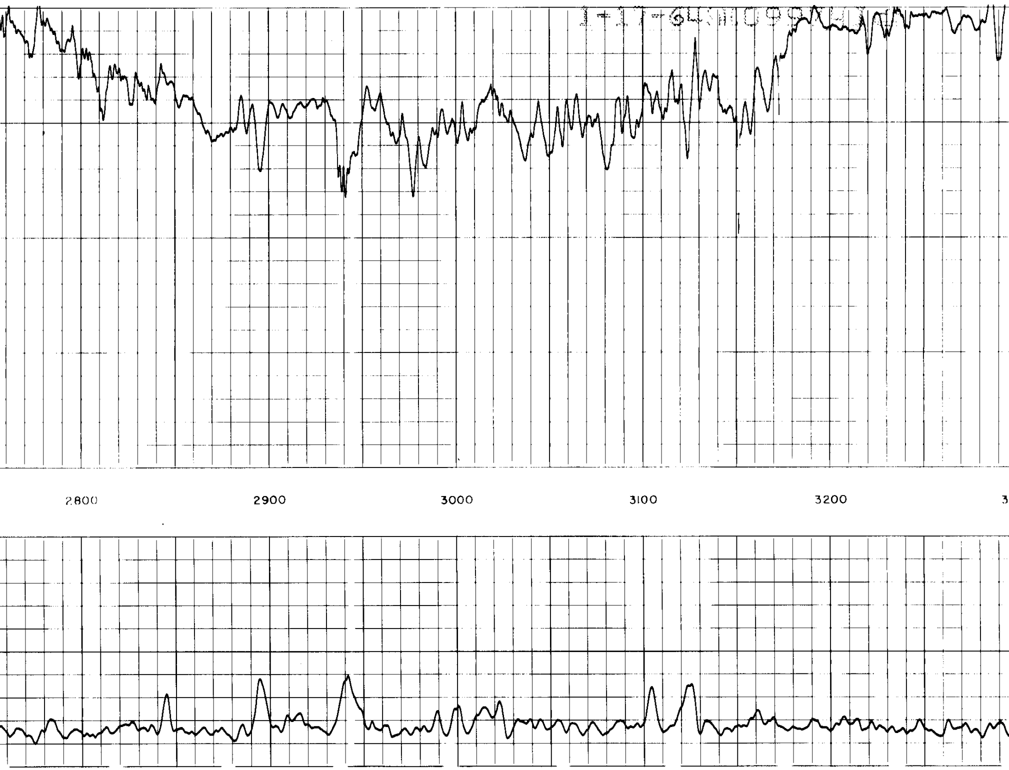
RECORDED 4 1/2' SHALLOW

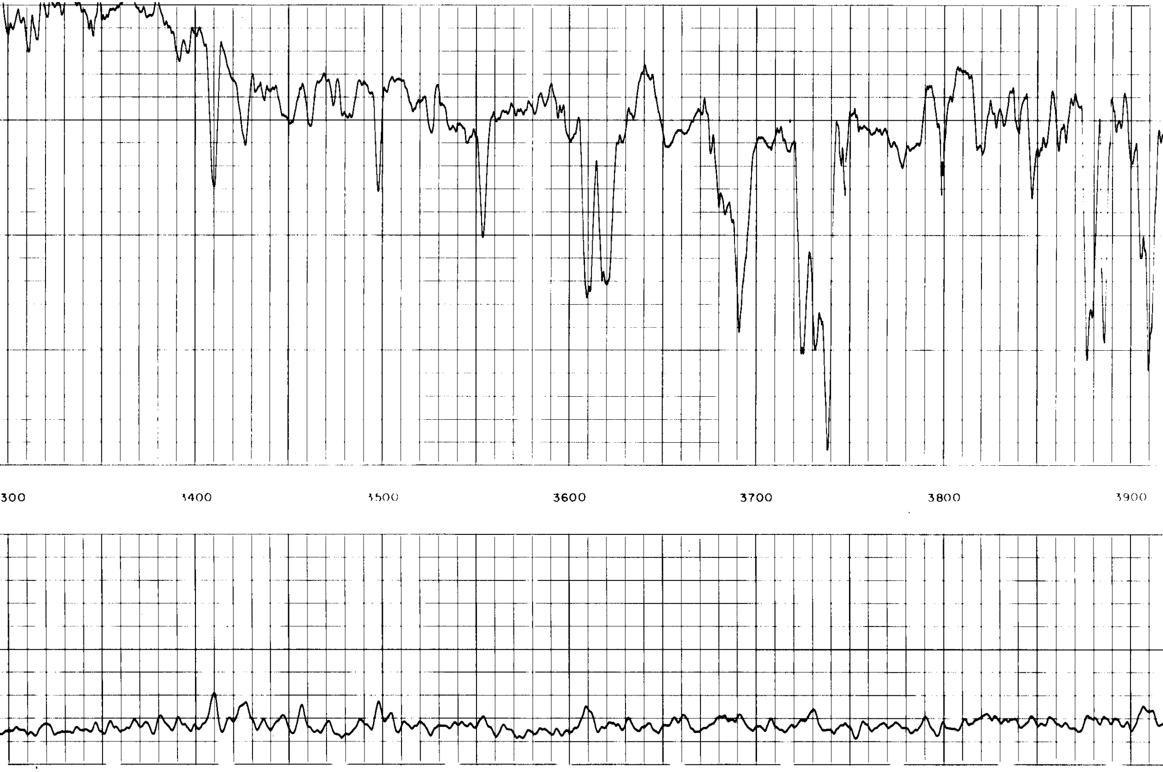


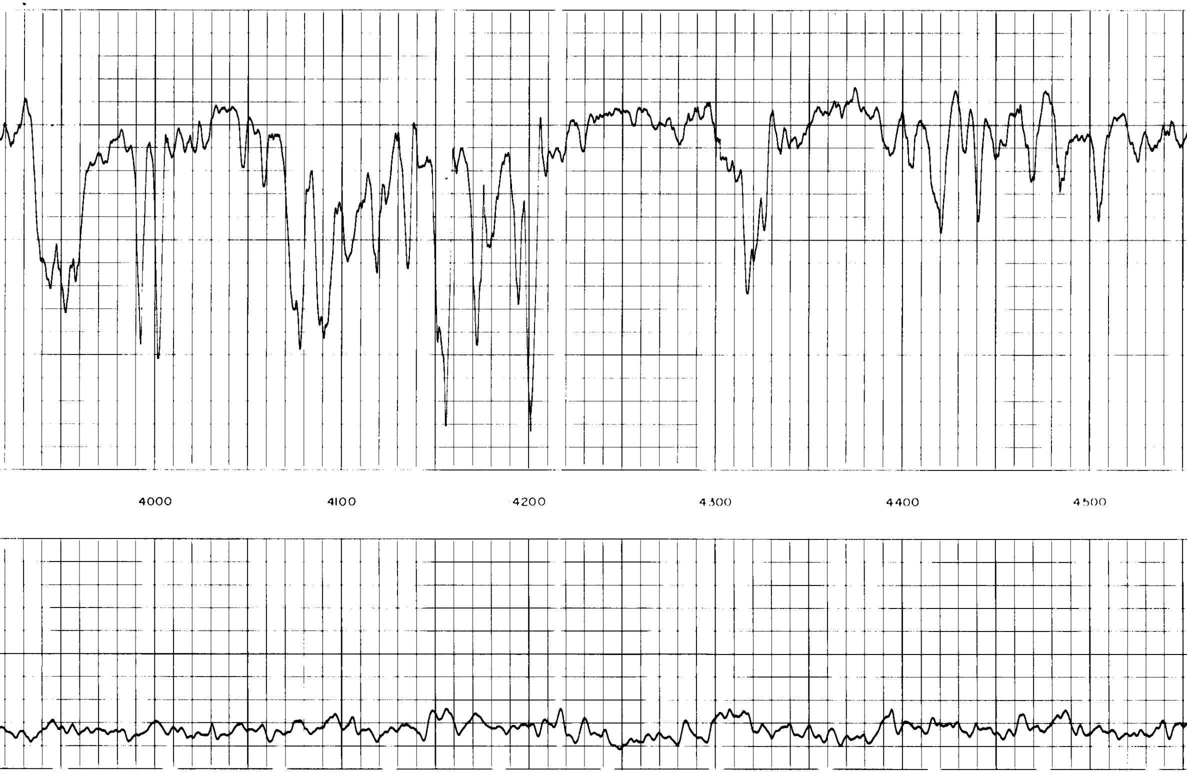


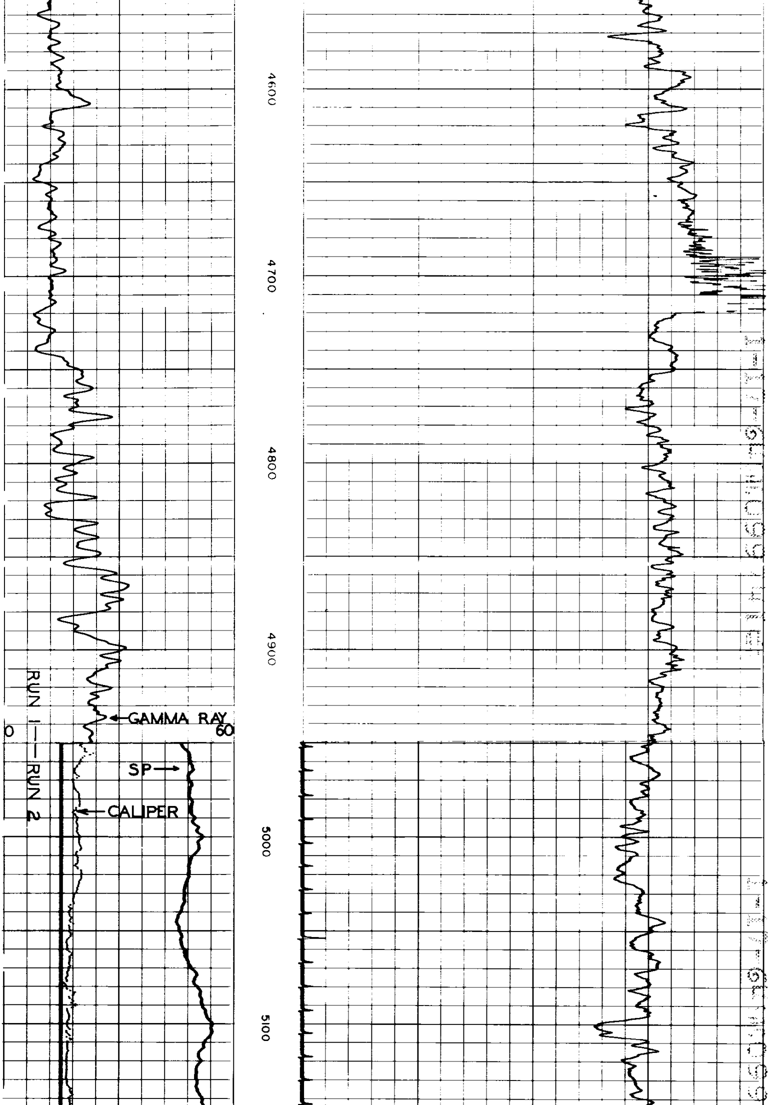


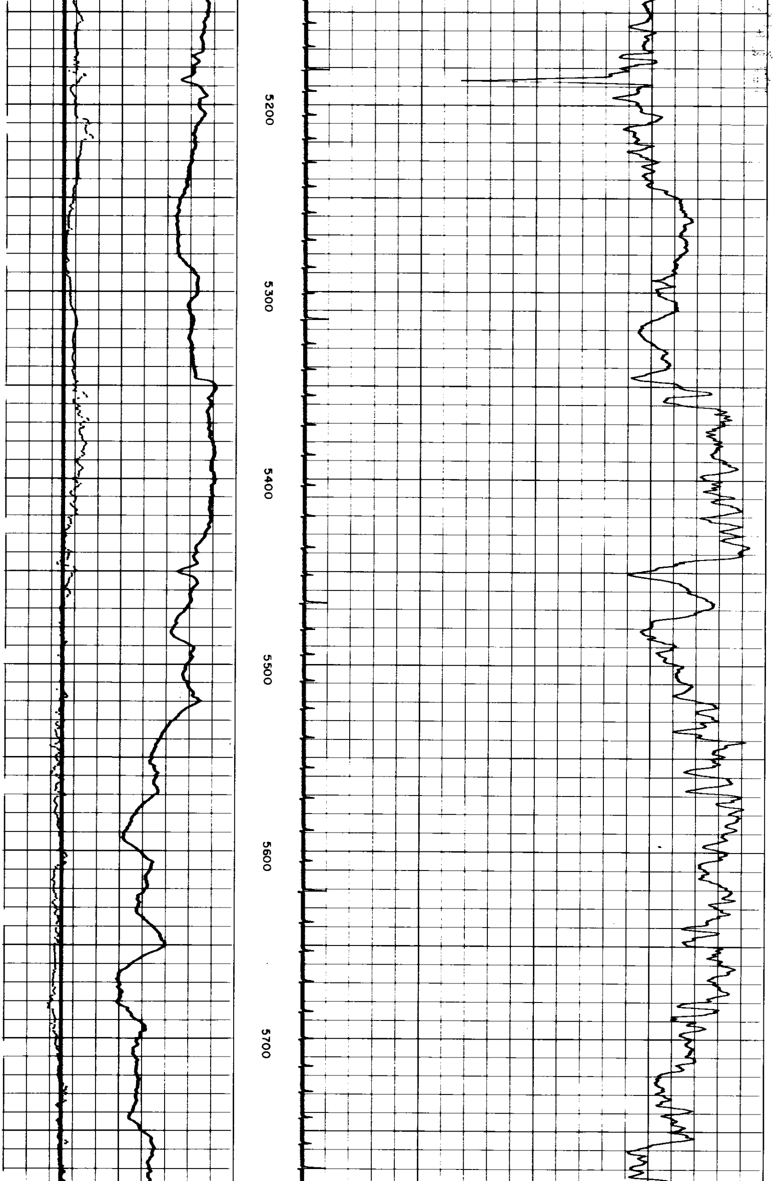


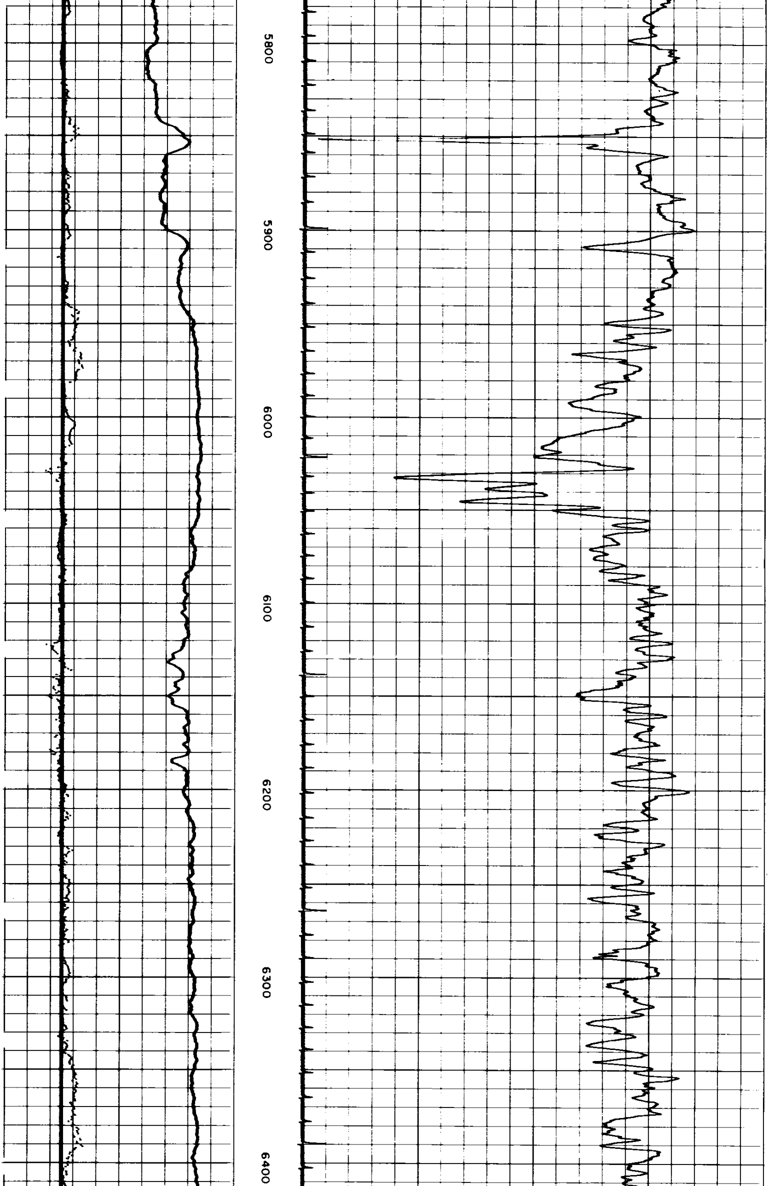


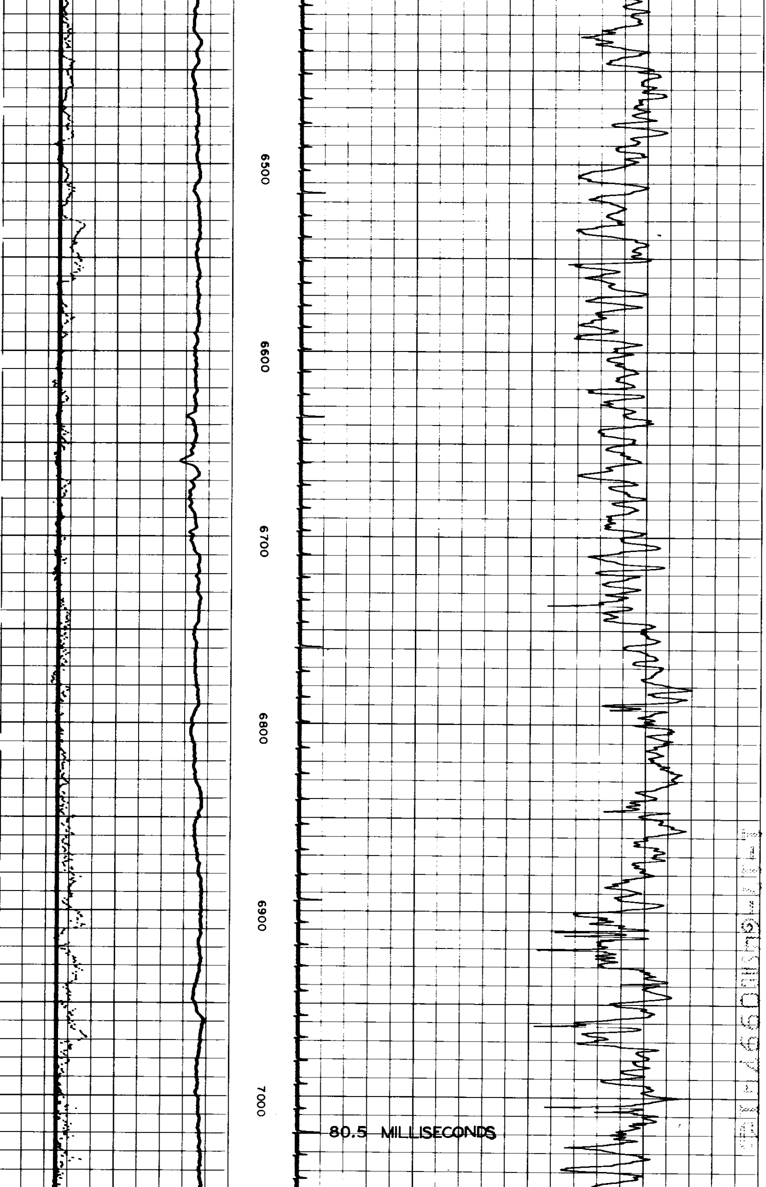


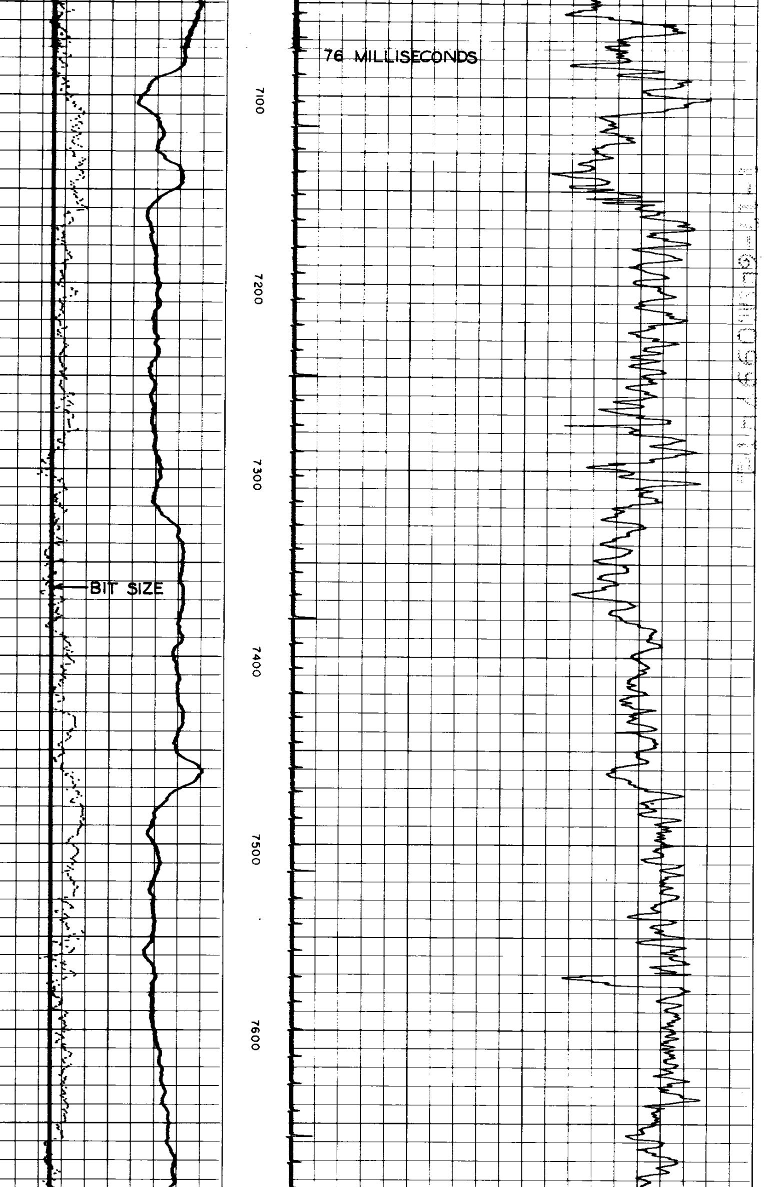


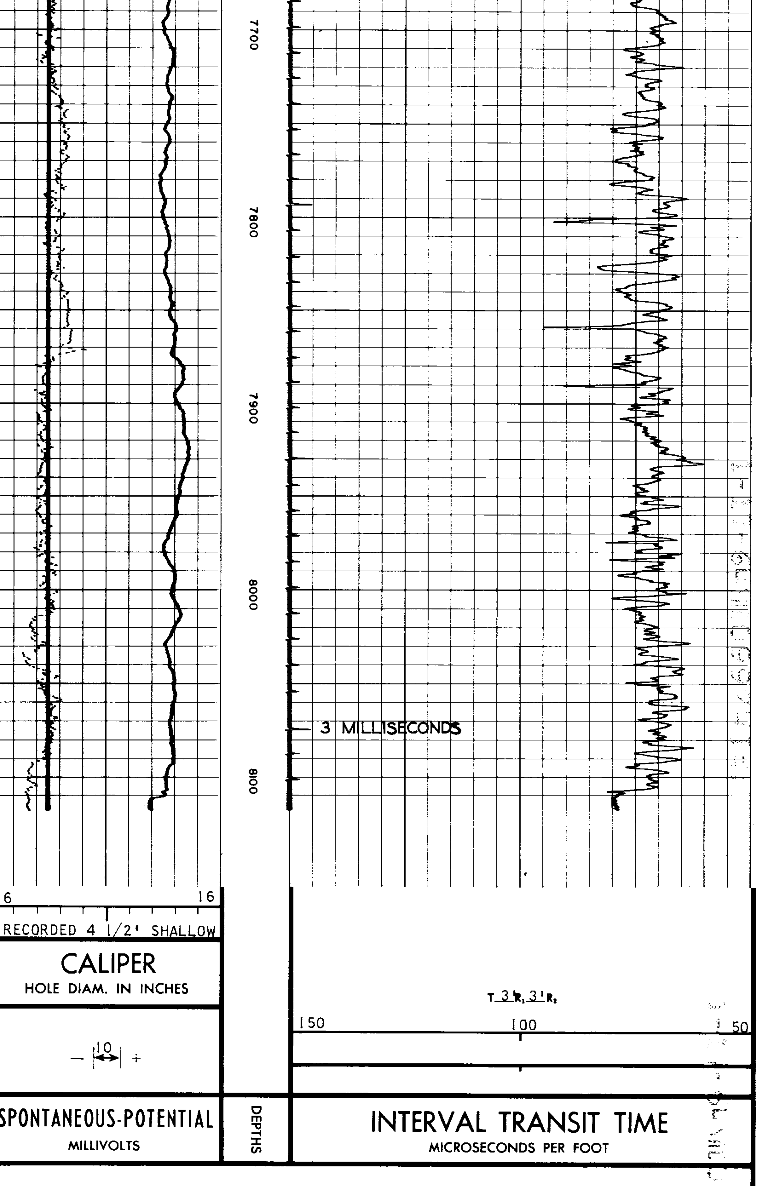












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SWSC FR 8108
SWSC TD 8113
DRLR TD 8113
Elev:
KB 282.9
DF
GL 266.4

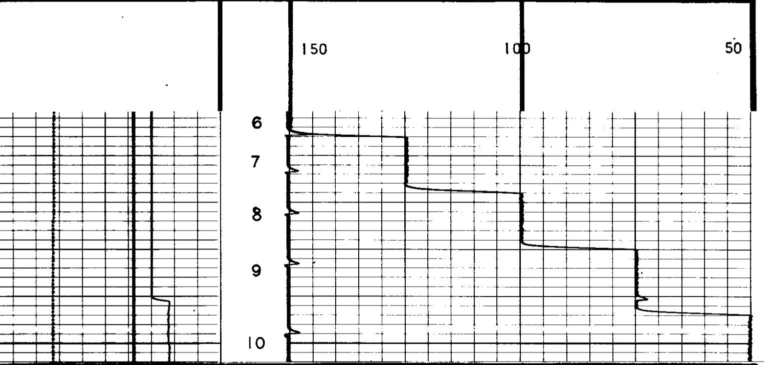
CALIBRATION DATA

SONIC CALIBRATION AFTER SURVEY

RUN TWO

STEPS

INTERVAL TRANSIT TIME
MICROSECONDS PER FOOT



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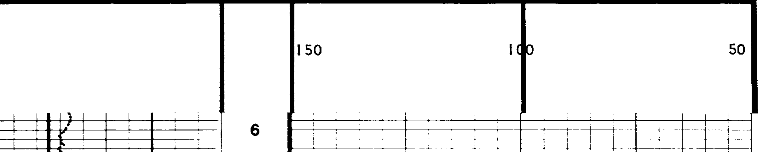
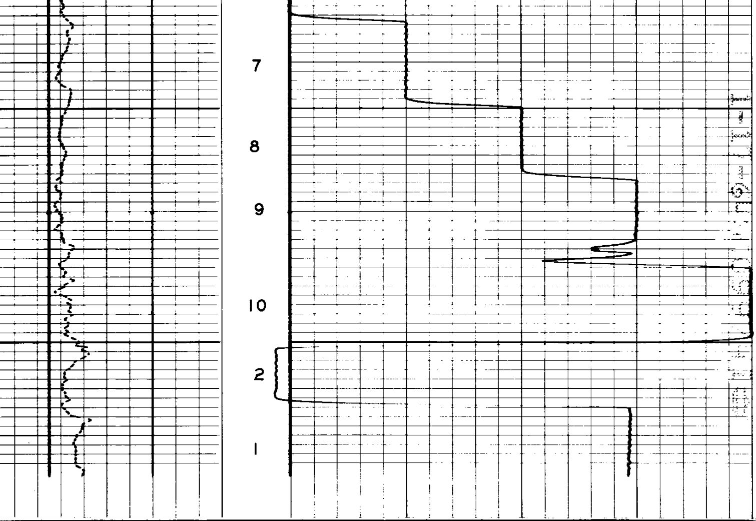
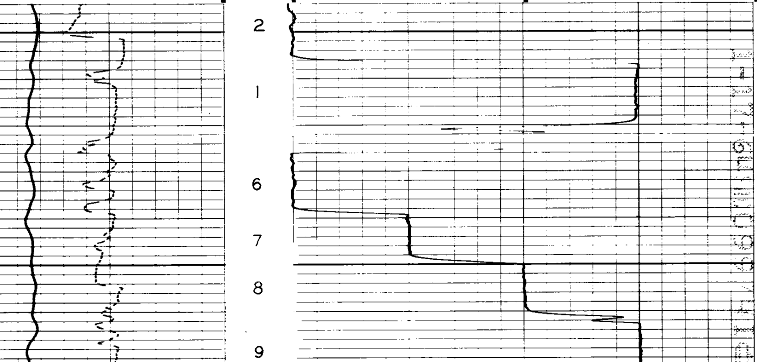
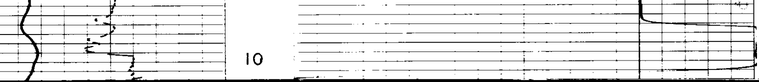




SONIC CALIBRATION AFTER SURVEY

RUN ONE	STEPS	INTERVAL TRANSIT TIME MICROSECONDS PER FOOT
		150 150 50



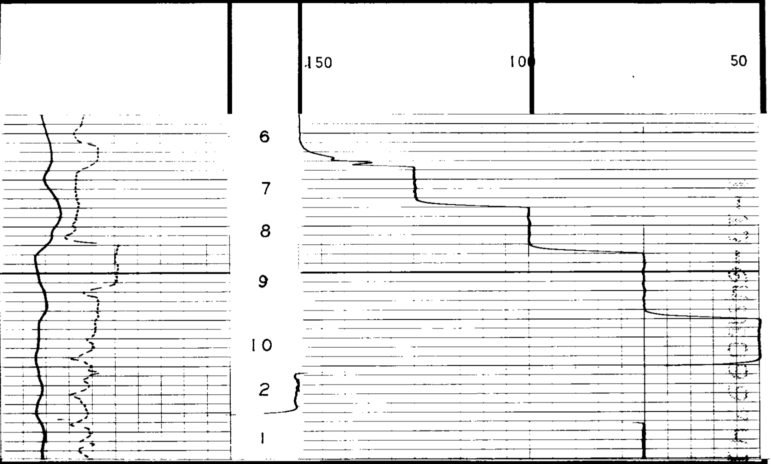


SONIC CALIBRATION BEFORE SURVEY

RUN ONE

STEPS

INTERVAL TRANSIT TIME
MICROSECONDS PER FOOT



CALIBRATION STEPS

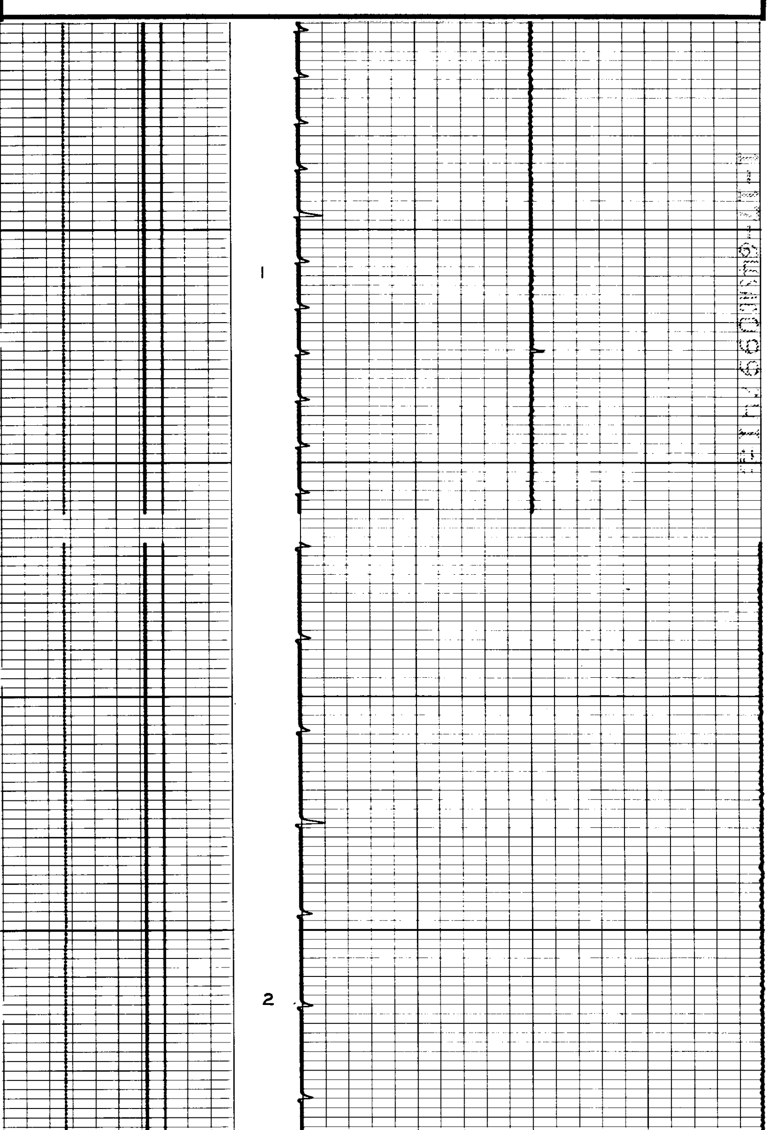
SONIC CALIBRATION BEFORE AND AFTER SURVEY

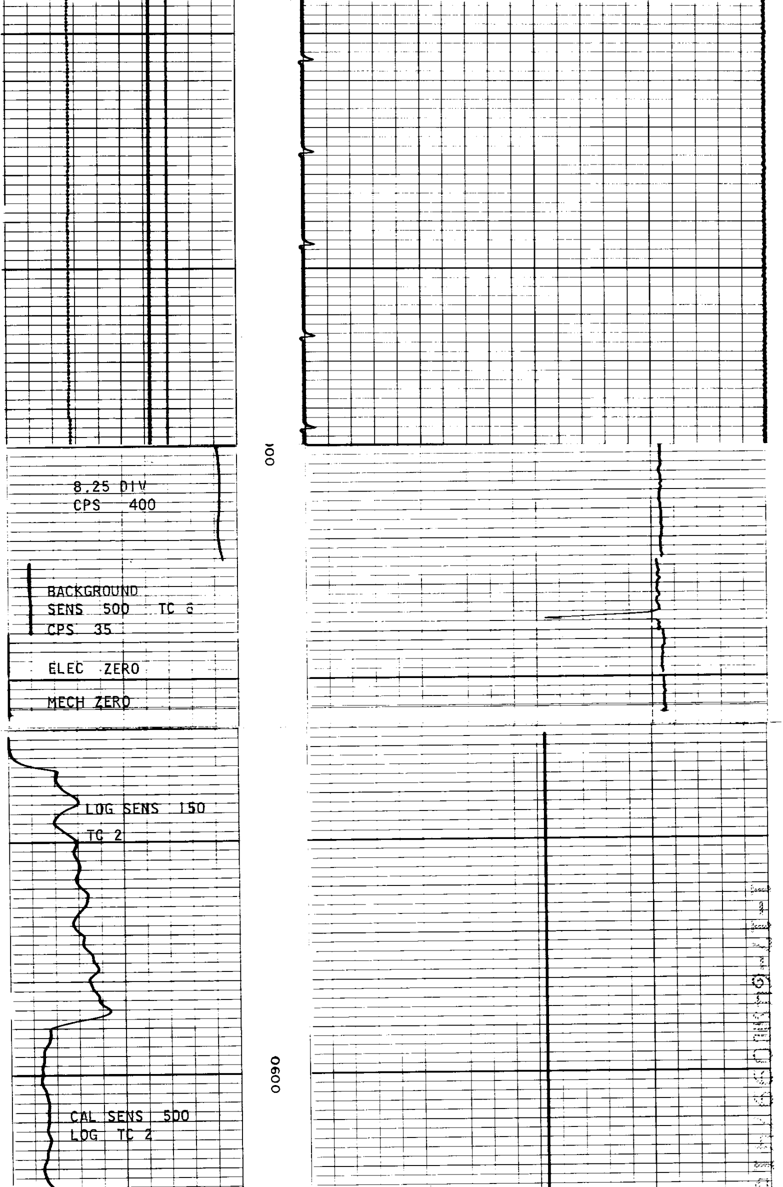
ONE FOOT SPAN- 1) 75 MICROSECONDS PER FOOT SIGNAL
2) 150 MICROSECONDS PER FOOT SIGNAL
3) 225 MICROSECONDS PER FOOT SIGNAL

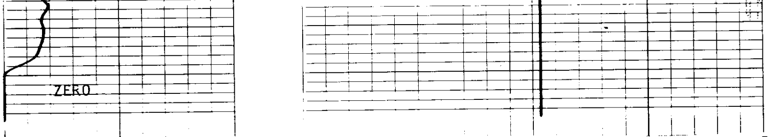
THREE FOOT SPAN_ 4) 200 MICROSECONDS PER FOOT SIGNAL
5) 175 MICROSECONDS PER FOOT SIGNAL
6) 150 MICROSECONDS PER FOOT SIGNAL
7) 125 MICROSECONDS PER FOOT SIGNAL
8) 100 MICROSECONDS PER FOOT SIGNAL
9) 75 MICROSECONDS PER FOOT SIGNAL
10) 50 MICROSECONDS PER FOOT SIGNAL

INTEGRATOR CALIBRATION AFTER SURVEY

11) 100 MICROSECONDS PER FOOT SIGNAL
12) 50 MICROSECONDS PER FOOT SIGNAL







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